

Ground Wire Installation Order

Left and right defined as seen looking at the instrument from the End Plate Side.

Left (Red) Side

Right (Blue) Side

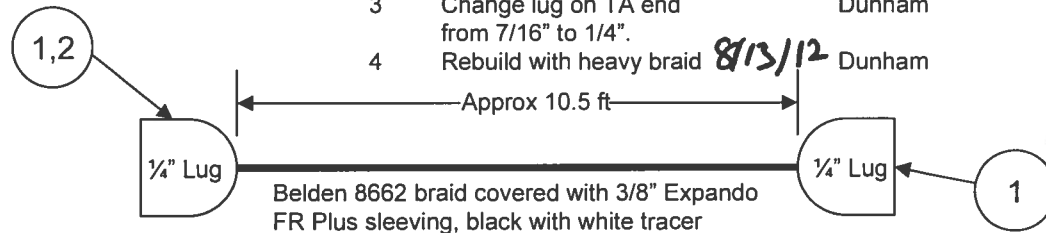
Cap screw head
Plug strip
Lock Washer
Bracket (HI-A02-07)
Lock Washer
Plug strip
Nut

Cap screw head
1/4" Lug
Lock Washer
Plug strip
Lock Washer
Bracket (HI-A02-07)
Lock Washer
Plug strip
Nut

Notes:

1. Roll braid end, insert into lug, crimp twice.
2. Label cable ends with cable number and "HIPO Safety Ground" using plastic label and clear Alpha FIT-221B shrink tubing.
3. Shrink 2" of 1/2" black FIT-221-R shrink tube over each end of sleeving.

Rev.	Description	Date	Name
1	Initial Release		Dunham
2	Add length, delete short wire, change part 1 from #10 to 7/16".		Dunham
3	Change lug on TA end from 7/16" to 1/4".		Dunham
4	Rebuild with heavy braid	8/13/12	Dunham



Ground Wire Installation Instructions

1. Scrape off the anodized coating of the Optical Table (HI-A02-01) and Plug Strip Bracket (HI-A02-07) in the area around the three screws that attach the bracket to the table.
2. Install the bracket to the table and verify good electrical contact between them.
3. Scrape off the paint on the plug strips and the anodized coating on the Plug Strip Bracket in the vicinity of the 1/4-28 mounting plug strip mounting holes to insure good electrical contact.
4. Place the plug strips by the bracket with their circuit breakers facing away from the table.
5. Thread the cap screws through the 1/4" lug, lock washers, plug strips, bracket, and mating nuts as shown in the "Ground Wire Installation Order" figure.
6. Tighten both cap screws and verify good electrical contact between the plug strips, the optical table, and the other 1/4" ground lug. This should be established by the lockwashers digging into bare metal surfaces of the parts they are sandwiched between.

2	5	1/4" Lockwashers	MS35335-33
1	2	Lug, 1/4", TE Conn/AMP	321598
Item	Qty.	Description	Specification

HIPO High-Speed Imaging Photometer for Occultations Lowell Observatory Flagstaff, AZ 86001	
Tolerances unless otherwise noted Fractions 1/64 2 places 0.010 3 places 0.005	Finish unless otherwise noted Break sharp edges

TITLE: Safety Ground Wires		
Dwg. No. HI-M01-27	Size: A	Sheet 1 of 1
Scale: N/A	Next Assy HI-M01-00	Calc. Wt. N/A
Drawn: Dunham	Date: 8/13/12	Approved: <i>ED</i>
Checked: <i>RCO</i>	Date: 8/14/12	Date: 8/14/12